

Publié avec le concours financier du Conseil National des Recherches d'Italie

Bulletin volcanologique

ORGANE DE

l'Association Internationale de Volcanologie et de
Chimie de l'Intérieur de la Terre
de l'Union géodésique et géophysique internationale

Tome XXXIII - 1969

B. V.

LIBRARY USE ONLY

UNIVERSITY OF HAWAII LIBRARY

Printed by

STABILIMENTO TIPOGRAFICO FRANCESCO GIANNINI & FIGLI
Via Cisterna dell'Olio - Napoli, Italy
1970

INDEX TO VOL. XXXIII

TABLE DE MATIÈRES POUR LE T. XXXIII

Fasc. 1

	pag.
R. BURGASSI, A. CALAMAI et R. CATALDI, <i>Développements récents de la recherche géothermique dans la région du Monte Amiata. Le nouveau « champ » de Poggio Nibbio</i>	1
R. CATALDI, G. C. FERRARA, G. STEFANI and E. TONGIORGI, <i>Contribution to the Knowledge of the Geothermal Field of Larderello (Tuscany - Italy). Remark on the Carboli area</i>	» 29
M. HAYAKAWA, <i>Anomalous Heat Flow in Japan</i>	» 57
R. K. VERMA, R. U. M. RAO, M. L. GUPTA, G. VENKATESHWAR RAO and V. M. HAMZA, <i>Terrestrial Heat Flow in Various Parts of India</i>	» 69
J. GOGUEL, <i>La contraction thermique peut-elle expliquer les déformations tectoniques?</i>	» 89
D. P. MCKENZIE and J. G. SCLATER, <i>Heat Flow in the Eastern Pacific and Sea Floor Spreading</i>	» 101
G. FACCA, <i>Geophysical Investigations in the Self-sealing Geothermal Fields</i>	» 119
V. M. HAMZA and R. K. VERMA, <i>The Relationship of Heat Flow with Age of Basement Rocks</i>	» 123
J. S. RINEHART, <i>Old Faithful Geyser Performance 1870 through 1966</i>	» 153
J. MOUTON, <i>Contribution des Méthodes de Prospections Géothermique et Géophysiques à l'Etude des Champs Géothermiques de Toscane - Italie</i>	» 165
T. S. LEBEDEV, R. I. KUTAS and V. V. GORDIYENKO, <i>Geothermal Characteristics of the Crimean Peninsula and Some Areas of the Eastern Carpathians</i>	» 191
T. NOGUCHI and S. ONODERA, <i>Resistivity Exploration for Altered Zone at Otake Geothermal Area - Japan</i>	» 205
E. HURTIG and W. MEINKE, <i>Subsurface Temperature, Heat Conductivity and Heat Flow in the Thuringia Basin and Surrounding Areas, GDR</i>	» 229
G. PALMASON, <i>On Heat Flow in Iceland</i>	» 243
B. ÁRNASON, P. THEODORSSON, S. BJÖRNSSON and K. SAEMUNDSSON, <i>Hengill, a High Temperature Thermal Area in Iceland</i>	» 245
A. N. TICKONOV, E. A. LUBIMOVA, V. K. VLASOV, <i>Heat Flow from the Earth's Interior Depending on Inner Parameters Variations</i>	» 261
F. A. MAKARENKO, B. G. POLAK and Ya. B. SMIRNOV, <i>Thermal Regime of the Upper Parts of Lithosphere (on the example of the USSR area)</i>	» 281
T. BOLDÍZSÁR, <i>Terrestrial Heat Flow and Alpine Orogenesis</i>	» 293
C. R. B. LISTER, <i>Some Problems in Digital Heat-Flow Measurement</i>	» 299
C. R. B. LISTER, <i>Studies of Oceanic Tectonics Utilizing Detailed Surveying and Stratigraphy</i>	» 311
G. MARINELLI, <i>Some Geological Data on the Geothermal Areas of Tuscany</i>	» 319
E. N. LYUSTIKH, <i>The Content of Radioactive Elements in the Earth's Mantle</i>	» 335
E. A. LUBIMOVA, <i>Terrestrial Heat Flow for the USSR and Its Connection with other Geophenomena</i>	» 341

Fasc. 2

I. BAKER, <i>Small Scale Intrusions on Saint Helena, South Atlantic</i>	pag.	369
J. R. VAIL, G. HORNUNG and K. G. COX, <i>Karoo Basalts of the Tuli Syncline, Rhodesia</i>	»	398
I. L. GIBSON, <i>A Comparative Account of the Flood Basalt Volcanism of the Columbia Plateau and Eastern Iceland</i>	»	419
D. L. GIBBON, <i>Origin and Development of the Star Mountain Rhyolite</i>	»	438
R. E. STOIBER and W. I. ROSE, Jr, <i>Recent Volcanic and Fumarolic Activity at Santiaguito Volcano, Guatemala</i>	»	475
G. G. SANTOS and R. E. WAINERDI, <i>Notes on the 1965 Taal Volcanic Eruptions</i>	»	503
J. A. KATILI, <i>Permian Volcanism ad Its Relation to the Tectonic Development of Sumatra</i>	»	530
E. A. K. MIDDLEMOST, <i>Subvolcanic Complexes of Namaqualand and Southern South West Africa</i>	»	541
D. C. ALMOND, FAROUK AHMED and BADR ELDIN KHALIL, <i>An Excursion to the Bayuda Volcanic Field of Northern Sudan</i>	»	549
J. W. COLE, <i>Garibaldi Volcanic Complex, Ethiopia</i>	»	566
R. J. LUTTON, <i>Internal Structure of the Buckboard Mesa Basalt</i>	»	579
H. D. TJIA, <i>Fracture Pattern on Lamongan Volcano, East Java</i>	»	594
J. G. MOORE and W. G. MELSON, <i>Nuées Ardentes of the 1968 Eruption of Mayon Volcano, Philippines</i>	»	600
J. VARET, <i>Les phonolites agpaitiques et miaskitiques du Cantal septentrional (Auvergne, France)</i>	»	621
M. NEUMANN VAN PADANG, <i>Discussion on the paper «A suggestion for the application of new symbols in the short description of different volcanic phenomena» by P. Hédervári</i>	»	659

Fasc. 3

J. M. FÚSTER, A. PÁEZ and S. SAGREDO, <i>Significance of Basic and Ultramafic Rock Inclusions in the Basalts of Canary Islands</i>	pag.	665
R. ROMANO, <i>Sur l'origine de l'excès de sodium (ns) dans certains laves de l'Île de Pantelleria</i>	»	694
A HERNÁNDEZ-PACHECO, <i>The Tahitites of Gran Canaria and Haüynitization of Their Inclusions</i>	»	701
E. IBARROLA, <i>Variation Trends in Basaltic Rocks of the Canary Islands</i>	»	729
J. E. GUEST and J. SÁNCHEZ R., <i>A Large Dacitic Lava Flow in Northern Chile</i>	»	778
J. B. DAWSON and D. G. POWELL, <i>The Natron-Engaruka Explosion Crater Area, Northern Tanzania</i>	»	791
V. GOTTONI, <i>Serial Character of the Volcanic Rocks of Pantelleria</i>	»	818
L. VILLARI, <i>On Particular Ignimbrites of the Islands of Pantelleria (Channel of Sicily)</i>	»	828
M. MUÑOZ, <i>Ring Complexes of Pajara in Fuerteventura Island</i>	»	840
L. A. J. WILLIAMS, <i>Geochemistry and Petrogenesis of the Kilimanjaro Volcanic Rocks of the Amboseli Area, Kenya</i>	»	862
F. MOSELEY, <i>The Aden Traps of Dhala, Musaymir and Radfan, South Yemen</i>	»	910
S. THORARINSSON, <i>The Lakagigar Eruption of 1783</i>	»	942
D. C. GREEN, <i>Transitional Basalts from the Eastern Australian Tertiary Province</i>	»	960
J. KELLER, <i>Origin of Rhyolites by Anatetic Melting of Granitic Crustal Rocks</i>	»	979
E. Wm. HEINRICH and D. H. DAHLEM, <i>Dikes of the McClure Mountain - Iron Mountain Alkaline Complex, Fremont County, Colorado, U.S.A.</i>	»	979
A. RITTMANN, <i>Note to the Contribution by V. Gottini on the « Serial Character of the Volcanic Rocks of Pantelleria »</i>	»	979

Fasc. 4

S. FERNÁNDEZ SANTIN, <i>Pegmatoides in the Horizontal Basalts (Series I) of Lanzarote and Fuerteventura Islands</i>	pag. 989
P. GASTESI, <i>Petrology of the Ultramafic and Basic Rocks of Betancuria Massif, Fuerteventura Island (Canarian Archipelago)</i>	» 1008
H. TAZIEFF, G. MARINELLI, F. BARBERI, et J. VARET, <i>Géologie de l'Afar Septentrional - Première expédition du CNRS - France et du CNR - Italie (décembre '67-février '68)</i>	» 1039
T. FRISCH and H. U. SCHMINCKE, <i>Petrology of Clinopyroxene - Amphibole Inclusions from the Roque Nublo Volcanics, Gran Canaria, Canary Islands. (Petrology of Roque Nublo Volcanics I)</i>	» 1073
E. LOCARDI and M. MITTEMPERGER, <i>The Meaning of Magmatic Differentiation in Some Recent Volcanoes of Central Italy</i>	» 1089
K. YAGI, <i>Geochemistry of the Alkaline Dolerites of the Nemuro Peninsula, Japan</i>	» 1101
D. GIUSCA, G. ISTRATI, A. STEFAN, <i>Le complexe volcano-plutonique de la Vla-deasa (Roumanie)</i>	» 1118
M. E. DENAEYER, <i>Nouvelles données lithologiques sur les volcans actifs des Virunga (Afrique Centrale)</i>	» 1128
V. ARAÑA and S. L. BRÄNDLE, <i>Variation trends in the alkaline salic rocks of Tenerife</i>	» 1145
S. LÓPEZ RUIZ, <i>Le complexe filonien de Fuerteventura (îles Canaries)</i>	» 1166
G. S. GORSHKOV, <i>Two types of Alkaline Rocks-two types of Upper Mantle</i>	» 1186
H. U. SCHMINCKE, <i>Ignimbrite Sequence on Gran Canaria</i>	» 1199
P. BORDET, <i>A propos du volcanisme d'âge plio-quaternaire d'Afghanistan central: ignimbrites et brèches de nuées pélénennes</i>	» 1220
F. MACHADO, <i>Oceanic Fissure Eruptions, Subvolcanic Intrusions and Volcanic Magma Chambers</i>	» 1229
F. COLIN, <i>Les basaltes alcalins sodiques de l'Aubrac (Massif central français)</i>	» 1237
B. G. S. UPTON and W. S. WADSWORTH, <i>Early Volcanic Rocks of Réunion and Their Tectonic Significance</i>	» 1246
G. E. BOGOYAVLENSKAYA and Yu M. DUBIK, <i>Andesite Crystallization in the Upper Parts of Volcanic Canals</i>	» 1269
Ye. K. USTIYEV, <i>Volcanic, Subvolcanic and Plutonic Series of the Northeastern Asia and the General Problem of the Volcano - Plutonic Formations</i>	» 1274